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Reconfigurable Transceiver Architecture for Multiband RF-Frontends (Smart Sensors, Measurement and Instrumentation)

Erick Gonzalez Rodriguez

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This book investigates and discusses the hardware design and implementation to achieve smart air interfaces with a reduced number of Radio Frequency (RF) transmitter and receiver chains, or even with a single reconfigurable RF-Frontend in the user terminal. Various hardware challenges are identified and addressed to enable the implementation of autonomous reconfigurable RF-Frontend architectures. Such challenges are (*i*) the conception of a transceiver with wide tuning range of at least up to 6 GHz, (*ii*) the system integration of reconfigurable technologies targeting current compact devices that demand voltages up to 100 V for adaptive controlling and (*iii*) the realization of a multiband and multistandard antenna module employing agile components to provide flexible frequency coverage. A solid design of a reconfigurable frontend is proposed from the RF part to the digital baseband. The system integration of different components in the reconfigurable RF-Frontend of a portable-oriented device architecture is demonstrated.

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